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Tables of Contents

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- Standards

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- Basic
- Advanced

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1 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 23 Issue 4

Full text available: [pdf\(1.95 MB\)](#)

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Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computation ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

2 The family of concurrent logic programming languages

Ehud Shapiro
September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: [pdf\(9.62 MB\)](#)

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Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogramming ...

3 A transformation system for CLP with dynamic scheduling and CCP

Sandro Etalle, Maurizio Gabbrielli, Elena Marchiori
December 1997 **ACM SIGPLAN Notices , Proceedings of the 1997 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**, Volume 32 Issue 12

Full text available: [pdf\(1.58 MB\)](#)

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<u>L4</u>	5933635.pn.	1	<u>L4</u>
<u>L3</u>	5995754.pn.	1	<u>L3</u>
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